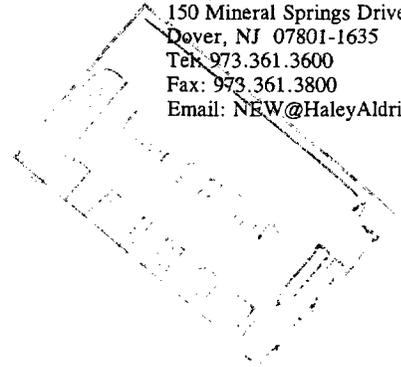


Haley & Aldrich, Inc.
150 Mineral Springs Drive
Dover, NJ 07801-1635
Tel: 973.361.3600
Fax: 973.361.3800
Email: NEW@HaleyAldrich.com



Letter of Transmittal

Date: 29 July 1999
File Number: 74167-001
From: Sunila Gupta *AG*
Joseph Savarese

To: New Jersey Department of Environmental Protection
BEECRA, P.O. Box 432
401 East State Street, Trenton, NJ 08625

Attention: Mr. Joseph Nowak

Copy to: A. William Nosil
Edward Hogan, Esq.

Subject: Hexcel Facility, Lodi, NJ

Copies	Date	Description
3	7/27/99	Quarterly Progress Report

Remarks:

Document Transmitted Via:

- First Class Mail
- Overnight Express
- Courier/Hand Delivered
- Other

SDMS Document



88220

Haley & Aldrich, Inc.
150 Mineral Spring Drive
Dover, NJ 07801-1635
Tel: 973.361.3600
Fax: 973.361.3800
E-mail: NEW@HaleyAldrich.com



27 July 1999
File No. 74167-001

New Jersey Department of Environmental Protection
Bureau of Environmental Evaluation and Cleanup Responsibility Assessment
P.O. Box 432
401 East State Street
Trenton, NJ 08625

Attention: Joseph J. Nowak

Subject: Quarterly Progress Report
Hexcel Corporation
Lodi Borough, Bergen County, New Jersey
ISRA Case No. 86009

Dear Mr. Nowak:

On behalf of Hexcel Corporation (Hexcel), the following is the progress report of activities carried out during April, May, and June 1999. This quarterly report is prepared in accordance with the Industrial Site Recovery Act (ISRA) requirements for the Hexcel facility in Lodi, New Jersey.

A conceptual remedial plan was presented to the New Jersey Department of Environmental Protection in our meeting on 20 May 1999. Based on the NJDEP's favorable response, we are preparing a Remedial Action Workplan (RAW) for submission to the NJDEP by 31 August 1999. In the interim, this progress report discusses monitoring and product recovery activities conducted during the second quarter of 1999. The following topics are discussed in this progress report:

- 1) Groundwater Elevation/DNAPL/LNAPL Monitoring
 - a) Quarterly Monitoring
 - b) Monthly Monitoring
- 2) Product Recovery Program
 - a) DNAPL Recovery
 - b) LNAPL Recovery
- 3) Schedule and Cost Estimates

OFFICES

Boston
Massachusetts

Cleveland
Ohio

Denver
Colorado

Hartford
Connecticut

Los Angeles
California

Manchester
New Hampshire

Portland
Maine

Rochester
New York

San Diego
California

San Francisco
California

Washington
District of Columbia

1. Groundwater Elevation/DNAPL/LNAPL Monitoring

This section includes the results of quarterly monitoring performed during the second quarter of 1999. Quarterly and monthly monitoring is performed in accordance with the NJDEP-approved plan presented in our progress report dated 24 October 1994.

1a. Quarterly Monitoring

Hexcel conducted quarterly groundwater elevation, DNAPL and LNAPL monitoring on 5 April 1999, in accordance with the monitoring plan. Results of the quarterly monitoring are tabulated in Table I. Figures 1 and 2 illustrate shallow and deep groundwater elevation contours, respectively. Contour Map Reporting Forms are included for each of the contour maps. Table II contains a summary of well construction data to accompany the Contour Map Reporting Form for Figure 1. Tables I and II, Figures 1 and 2 and the contour map reporting forms are included as Appendix A.

1b. Monthly Monitoring

In addition to the quarterly monitoring conducted in April, Hexcel conducted monthly DNAPL and LNAPL monitoring on 27 May and 26 June 1999 in accordance with the monitoring plan and modifications approved by the NJDEP in its 12 June 1995 letter. Results for the May and June monthly monitoring are provided in Table III and Table IV respectively, located in Appendix B.

Hexcel will continue to perform monthly monitoring in accordance with the approved plan. Hexcel will report any modification to the monthly monitoring, by the addition and deletion of wells, in the progress reports.

2. Product Recovery Program

This section includes results for the temporary product recovery program currently being implemented at the site. For the purposes of product collection, quantities less than 0.1 gallon (approximately 1 cup) are considered to be non-recoverable. Based on our experience, if the product interface meter does not signal the presence of product, then it is not possible to pump a significant amount of DNAPL from the well, even when DNAPL is observed on the probe. Therefore, DNAPL recovery is usually attempted only when there is a signal from the product interface meter indicating the presence of product. Hexcel will continue to monitor for recoverable amounts of product (LNAPL and DNAPL) using the interface probe, as approved in the NJDEP's 27 May 1998 letter.

2a. DNAPL Recovery

During the second quarter of 1999, recoverable amounts of DNAPL was detected in MW-6 and RW6-1. Approximately 0.5 gallons of DNAPL was recovered from MW-6 and 0.1 gallons was recovered from RW6-1. No other wells indicated presence of recoverable

Joseph J. Nowak
27 July 1999
Page 3 of 3

amounts of DNAPL. DNAPL recovery during this quarter is summarized in Table V, located in Appendix C.

2b. LNAPL Recovery

No recoverable LNAPL was detected during the second quarter of 1999. Additionally, none of the wells indicated presence of even trace amounts of LNAPL (visual observation of the probe). LNAPL monitoring/recovery efforts are summarized in Table VI (Appendix C).

3. SCHEDULE AND COST ESTIMATES

Table VII, located in Appendix D, presents an updated estimate of the schedule of the remedial activities planned for 1999. Cost estimates will be included within the Remedial Action Workplan (RAW) which is scheduled to be submitted to the NJDEP in the end of August.

Please call us if you have any questions regarding the above.

Sincerely yours,
HALEY & ALDRICH, INC.


Sunila Gupta
Project Engineer


Joseph G. Savarese
Project Manager

Enclosures

c: A. William Nosil
Edward Hogan, Esq.

\\NEW\common\documents\74\74167\74167a18.doc



882200004

Appendix A

Quarterly Monitoring

Table I: Quarterly Water Level/Product Thickness Measurements (4/5/99)

Table II: Well Construction Data

Contour Map Reporting Form for Figure 1

Figure 1: Shallow Groundwater Elevation Contours on 4/5/99

Contour Map Reporting Form for Figure 2

Figure 2: Deep Groundwater Elevation Contours on 4/5/99

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
RW Series:												
RW1-1	shallow	NA	--	--	--	--	NA	28.24	NA	flush	s.steel	Measurements could not be made as an absorbent pad installed in the well was inadvertently dropped in the well.
RW6-1	shallow	2.53	--	--	--	--	13.67	28.86	26.33	flush	s.steel	Product on probe (DNAPL)**.
RW6-2	shallow	NA	--	--	--	--	NA	28.99	NA	flush	s.steel	Not measured; well casing elevation has changed.
RW6-3	shallow	3.92	--	--	--	--	5.46	28.67	24.75	flush	s.steel	
RW7-1	shallow	5.46	--	--	--	--	16.61	26.25	20.79	flush	s.steel	
RW7-2	shallow	6.23	--	--	--	--	16.89	26.48	20.25	flush	s.steel	
RW7-3	shallow	6.29	--	--	--	--	17.31	26.78	20.49	flush	s.steel	
RW7-4	shallow	6.65	--	--	--	--	19.09	27.11	20.46	flush	s.steel	Product on probe (DNAPL)**.
RW7-5	shallow	7.27	--	--	--	--	19.43	27.57	20.30	flush	s.steel	Product on probe (DNAPL)**.
RW7-6	shallow	6.72	--	--	--	--	15.02	26.48	19.76	flush	s.steel	
RW7-7	shallow	6.72	--	--	--	--	14.90	26.89	20.17	flush	s.steel	
RW7-8	shallow	5.02	--	--	--	--	14.99	25.90	20.88	flush	s.steel	
RW7-9	shallow	6.60	--	--	--	--	16.21	26.87	20.27	flush	s.steel	
RW7-10	shallow	7.04	--	--	--	--	14.19	26.10	19.06	flush	s.steel	
RW15-1	shallow	5.95	--	--	--	--	14.95	29.95	24.00	flush	s.steel	
RW15-2	shallow							30.15		flush	s.steel	Well not included in quarterly monitoring plan.

882200006

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
P Series:												
P-1	shallow	6.02	--	--	--	--	9.28	30.09	24.07	flush	1.5" pvc	
P-2	shallow	WA	--	--	--	--	WA	30.19	WA	flush	1.5" pvc	Well was sealed on March 29, 1996.
PI Series:												
PI-1	deep							26.90		flush	8" s.steel	Well not included in quarterly monitoring plan.
CW Series:												
CW-1	shallow	6.83	--	--	--	--	11.48	29.77	22.94	flush	s.steel	
CW-2	shallow							29.51		flush	s.steel	Well not included in quarterly monitoring plan.
CW-3	shallow							29.72		flush	s.steel	Recovery well; not included in monitoring plan.
CW-4	shallow	5.85	--	--	--	--	11.01	28.83	22.98	flush	s.steel	
CW-5	shallow							28.67		flush	s.steel	Recovery well; not included in monitoring plan.
CW-6	shallow							28.93		flush	s.steel	Well not included in quarterly monitoring plan.
CW-7	shallow	7.30	--	--	--	--	14.03	26.13	18.83	flush	s.steel	
CW-8	shallow	8.22	--	--	--	--	13.99	26.77	18.55	flush	s.steel	
CW-9	shallow							26.37		flush	s.steel	Recovery well; not included in monitoring plan.
CW-10	shallow	7.23	--	--	--	--	10.28	25.91	18.68	flush	s.steel	

882200007

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments	
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing		
CW Series (continued):													
CW-11	shallow							25.74			vaultbox	s.steel	Recovery well; not included in monitoring plan.
CW-12	shallow	7.09	--	--	--	--	13.94	25.71	18.62		flush	s.steel	Product on probe (DNAPL) **.
CW-13	shallow							26.05			flush	s.steel	Well not included in quarterly monitoring plan.
CW-14	shallow	7.65	--	--	--	--	13.92	26.37	18.72		flush	s.steel	
CW-15	shallow							26.31			flush	s.steel	Recovery well; not included in monitoring plan.
CW-16	shallow	7.40	--	--	--	--	13.88	26.45	19.05		flush	s.steel	Product on probe (DNAPL)**.
CW-17	shallow	6.75	--	--	--	--	13.99	26.25	19.50		flush	s.steel	
CW-18	shallow							26.61			flush	s.steel	Recovery well; not included in monitoring plan.
CW-19	shallow							26.50			flush	s.steel	Well not included in quarterly monitoring plan.
CW-20	shallow							26.74			flush	s.steel	Well not included in quarterly monitoring plan.
CW-21	shallow							26.77			flush	s.steel	Recovery well; not included in monitoring plan.
CW-22	shallow							26.35			flush	s.steel	Well not included in quarterly monitoring plan.
MW Series:													
MW-1	deep	9.85	--	--	--	--	23.62	32.42	22.57		stickup	pvc	
MW-2	shallow	7.77	--	--	--	--	10.28	31.00	23.23		stickup	pvc	
MW-3	deep	10.12	--	--	--	--	30.85	31.13	21.01		stickup	pvc	
MW-4	shallow	7.74	--	--	--	--	9.90	32.34	24.60		stickup	pvc	
MW-5	deep	11.00	--	--	--	--	28.45	32.54	21.54		stickup	pvc	

882200008

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
MW Series (continued):												
MW-6	shallow	9.67	--	--	--	--	18.31	30.74	21.07	stickup	pvc	
MW-7	deep	9.42	--	--	--	--	33.05	30.68	21.26	stickup	pvc	
MW-8	shallow	11.65	--	--	--	--	17.40	30.26	18.61	stickup	pvc	Product on probe (DNAPL)**.
MW-9	deep	8.55	--	--	--	--	29.66	29.83	21.28	stickup	pvc	
MW-10	shallow	12.36	--	--	--	--	16.80	30.83	18.47	stickup	pvc	
MW-11	deep	9.76	--	--	--	--	33.61	30.78	21.02	stickup	pvc	
MW-12	shallow	10.05	--	--	--	--	17.24	31.01	20.96	stickup	pvc	
MW-13	deep	9.48	--	--	--	--	33.37	31.16	21.68	stickup	pvc	
MW-14	shallow	11.34	--	--	--	--	15.65	30.70	19.36	stickup	pvc	
MW-15	deep	8.66	--	--	--	--	25.70	30.77	22.11	stickup	pvc	
MW-16	shallow	6.87	--	--	--	--	12.44	29.69	22.82	stickup	pvc	
MW-17	shallow	9.11	--	--	--	--	14.10	31.44	22.33	stickup	pvc	
MW-18	shallow	8.54	--	--	--	--	11.40	32.23	23.69	stickup	pvc	
MW-19	deep	6.96	--	--	--	--	26.70	29.08	22.12	stickup	pvc	
MW-20	shallow	NA	--	--	--	--	NA	27.95	NA	flush	pvc	Car parked over well; owner could not be contacted.
MW-21	shallow	8.44	--	--	--	--	15.18	30.67	22.23	stickup	pvc	
MW-22	shallow	5.47	--	--	--	--	8.35	28.45	22.98	flush	pvc	
MW-23	shallow	4.01	--	--	--	--	9.63	27.51	23.50	flush	pvc	
MW-24	shallow	3.31	--	--	--	--	9.42	26.51	23.20	flush	pvc	
MW-25	shallow	NA	--	--	--	--	NA	26.03	NA	flush	pvc	Well on Napp property; access denied.

882200009

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
MW Series (continued):												
MW-26	(a)	7.16	--	--	--	--	18.05	28.85	21.69	flush	2" pvc	
MW-27	shallow	7.15	--	--	--	--	11.96	31.69	24.54	stickup	pvc	
MW-28	shallow	10.31	--	--	--	--	14.80	29.68	19.37	stickup	pvc	
MW-29	shallow	3.81	--	--	--	--	9.38	27.32	23.51	flush	pvc	
MW-30	shallow	5.18	--	--	--	--	10.48	28.08	22.90	flush	pvc	
MW-31	shallow	NA	--	--	--	--	NA	27.95	NA	flush	pvc	Well on Napp property; access denied.
MW-32B	shallow	8.12	--	--	--	--	11.11	31.23	23.11	flush	pvc	
MW-33	shallow	9.64	--	--	--	--	17.02	31.72	22.08	stickup	pvc	
PB Series:												
PB-1	shallow	NA					NA	21.78	NA	stickup	2" g.steel	The Building I pit has been rendered inaccessible for monitoring. Prior to demolition, the pit was covered with steel plates as a safety precaution and to avoid debris falling into the pit.
PB-2	shallow	NA					NA	21.25	NA	stickup	2" g.steel	
PB-4	shallow	NA					NA	21.52	NA	stickup	2" g.steel	

- NOTES:** All measurements of depths are from the top of casing unless otherwise noted. All wells are 4" diameter unless otherwise noted.
- : Not detected by product interface meter.
 - N/A : Measurements not available.
 - (a): Ground water elevation data from MW-26 have been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.
 - *: In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness * specific gravity).
 Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).
 - ** : Though the product interface meter did not register presence of product in the well, product was observed on the probe.
 - ∴ : Top of casing elevation for the well was resurveyed on 28 April 1999.

882200010

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
						(4/5/99)		Type	Casing	Date	By	
RW Series:												
RW1-1	shallow	28.67	28.24	10	23.67	NA	NA	flush	s.steel	10/91	Heritage	NA
RW6-1	shallow	29.28	28.86	5	20.28	2.53	26.33	flush	s.steel	8/90	Heritage	Yes
RW6-2	shallow	U	28.99	5	U	NA	NA	flush	s.steel	8/90	Heritage	U
RW6-3	shallow	29.02	28.67	5	27.52	3.92	24.75	flush	s.steel	8/90	Heritage	No
RW7-1	shallow	26.94	26.25	5	13.94	5.46	20.79	flush	s.steel	8/90	Heritage	Yes
RW7-2	shallow	27.07	26.48	5	14.57	6.23	20.25	flush	s.steel	8/90	Heritage	Yes
RW7-3	shallow	27.17	26.78	5	14.67	6.29	20.49	flush	s.steel	8/90	Heritage	Yes
RW7-4	shallow	27.60	27.11	5	13.60	6.65	20.46	flush	s.steel	8/90	Heritage	Yes
RW7-5	shallow	27.97	27.57	5	12.97	7.27	20.30	flush	s.steel	9/90	Heritage	Yes
RW7-6	shallow	27.10	26.48	5	17.10	6.72	19.76	flush	s.steel	9/90	Heritage	Yes
RW7-7	shallow	27.25	26.89	5	17.25	6.72	20.17	flush	s.steel	9/90	Heritage	Yes
RW7-8	shallow	26.71	25.90	5	16.71	5.02	20.88	flush	s.steel	9/90	Heritage	Yes
RW7-9	shallow	27.18	26.87	5	15.18	6.60	20.27	flush	s.steel	2/91	Heritage	Yes
RW7-10	shallow	26.50	26.10	5	16.50	7.04	19.06	flush	s.steel	2/91	Heritage	Yes
RW15-1	shallow	30.43	29.95	10	25.68	5.95	24.00	flush	s.steel	8/90	Heritage	No
RW15-2	shallow	30.37	30.15	10	26.37			flush	s.steel	8/90	Heritage	NI

882200011

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
						(4/5/99)		Type	Casing	Date	By	
P Series:												
P-1	shallow	U	30.09	U	U	6.02	24.07	flush	1.5" pvc	U	U	U
PI Series:												
PI-1	deep	U	26.90	U	U			flush	8" s.steel	10/91	Heritage	
CW Series:												
CW-1	shallow	30.27	29.77	5	23.27	6.83	22.94	flush	s.steel	9/90	Heritage	No
CW-2	shallow	30.11	29.51	5	23.11			flush	s.steel	9/90	Heritage	NI
CW-3	shallow	U	29.72	5	U			flush	s.steel	9/90	Heritage	NI
CW-4	shallow	29.10	28.83	5	22.60	5.85	22.98	flush	s.steel	7/90	Heritage	Yes
CW-5	shallow	28.89	28.67	5	22.39			flush	s.steel	7/90	Heritage	NI
CW-6	shallow	29.25	28.93	5	25.25			flush	s.steel	9/90	Heritage	NI
CW-7	shallow	26.70	26.13	5	17.70	7.30	18.83	flush	s.steel	8/90	Heritage	Yes
CW-8	shallow	26.70	26.77	5	17.70	8.22	18.55	flush	s.steel	8/90	Heritage	Yes
CW-9	shallow	26.60	26.37	5	17.60			flush	s.steel	8/90	Heritage	NI
CW-10	shallow	26.50	25.91	5	17.50	7.23	18.68	flush	s.steel	8/90	Heritage	Yes

882200012

HALEY &
ALDRICH

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
						(4/5/99)		Type	Casing	Date	By	
CW Series (continued):												
CW-11	shallow	26.60	25.74	5	17.60			vaultbox	s.steel	8/90	Heritage	NI
CW-12	shallow	26.51	25.71	5	17.51	7.09	18.62	flush	s.steel	8/90	Heritage	Yes
CW-13	shallow	26.60	26.05	5	17.60			flush	s.steel	8/90	Heritage	NI
CW-14	shallow	26.70	26.37	5	17.70	7.65	18.72	flush	s.steel	8/90	Heritage	Yes
CW-15	shallow	26.90	26.31	5	17.90			flush	s.steel	8/90	Heritage	NI
CW-16	shallow	27.00	26.45	5	18.00	7.40	19.05	flush	s.steel	8/90	Heritage	Yes
CW-17	shallow	27.10	26.25	5	18.10	6.75	19.50	flush	s.steel	8/90	Heritage	Yes
CW-18	shallow	27.20	26.61	5	18.20			flush	s.steel	8/90	Heritage	NI
CW-19	shallow	27.20	26.50	5	18.20			flush	s.steel	8/90	Heritage	NI
CW-20	shallow	27.30	26.74	5	18.30			flush	s.steel	8/90	Heritage	NI
CW-21	shallow	27.40	26.77	5	18.40			flush	s.steel	8/90	Heritage	NI
CW-22	shallow	27.30	26.35	5	18.30			flush	s.steel	8/90	Heritage	NI
MW Series:												
MW-1	deep	29.03	32.42	5	13.88	9.85	22.57	stickup	pvc	7/88	Environ	^
MW-2	shallow	27.90	31.00	5	26.13	7.77	23.23	stickup	pvc	8/88	Environ	No
MW-3	deep	27.84	31.13	5	5.30	10.12	21.01	stickup	pvc	8/88	Environ	^
MW-4	shallow	29.02	32.34	5	27.49	7.74	24.60	stickup	pvc	8/88	Environ	No
MW-5	deep	29.03	32.54	5	9.12	11.00	21.54	stickup	pvc	8/88	Environ	^

882200013

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
						(4/5/99)		Type	Casing	Date	By	
MW Series (continued):												
MW-6	shallow	27.14	30.74	10	22.12	9.67	21.07	stickup	pvc	8/88	Environ	No
MW-7	deep	27.18	30.68	5	2.55	9.42	21.26	stickup	pvc	7/88	Environ	^
MW-8	shallow	26.92	30.26	10	22.98	11.65	18.61	stickup	pvc	8/88	Environ	No
MW-9	deep	26.89	29.83	5	5.09	8.55	21.28	stickup	pvc	7/88	Environ	^
MW-10	shallow	27.33	30.83	11	24.81	12.36	18.47	stickup	pvc	8/88	Environ	No
MW-11	deep	27.28	30.78	10	6.86	9.76	21.02	stickup	pvc	7/88	Environ	^
MW-12	shallow	27.62	31.01	10	24.05	10.05	20.96	stickup	pvc	8/88	Environ	No
MW-13	deep	27.63	31.16	5	2.89	9.48	21.68	stickup	pvc	7/88	Environ	^
MW-14	shallow	27.12	30.70	9	24.18	11.34	19.36	stickup	pvc	8/88	Environ	No
MW-15	deep	27.17	30.77	5	10.13	8.66	22.11	stickup	pvc	7/88	Environ	^
MW-16	shallow	26.71	29.69	5	22.14	6.87	22.82	stickup	pvc	8/88	Environ	Yes
MW-17	shallow	29.10	31.44	8	25.10	9.11	22.33	stickup	pvc	1/89	Environ	No
MW-18	shallow	29.04	32.23	5	25.97	8.54	23.69	stickup	pvc	8/88	Environ	No
MW-19	deep	27.30	29.08	5	7.30	6.96	22.12	stickup	pvc	1/89	Environ	^
MW-20	shallow	28.50	27.95	5	13.50	NA	NA	flush	pvc	11/90	Heritage	NA
MW-21	shallow	28.80	30.67	10	25.80	8.44	22.23	stickup	pvc	9/90	Heritage	No
MW-22	shallow	28.73	28.45	5	25.73	5.47	22.98	flush	pvc	12/90	Heritage	No
MW-23	shallow	27.83	27.51	5	22.83	4.01	23.50	flush	pvc	11/90	Heritage	Yes
MW-24	shallow	26.93	26.51	5	21.93	3.31	23.20	flush	pvc	11/90	Heritage	Yes
MW-25	shallow	26.47	26.03	10	23.47	NA	NA	flush	pvc	9/90	Heritage	NA

882200014

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water (4/5/99)	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
MW Series (continued):												
MW-26	(a)	29.26	28.85	2	12.26	7.16	21.69	flush	2" pvc	12/90	Heritage	(a)
MW-27	shallow	29.10	31.69	5	24.10	7.15	24.54	stickup	pvc	9/90	Heritage	Yes
MW-28	shallow	27.50	29.68	10	24.50	10.31	19.37	stickup	pvc	9/90	Heritage	No
MW-29	shallow	27.50	27.32	5	22.50	3.81	23.51	flush	pvc	2/91	Heritage	Yes
MW-30	shallow	28.25	28.08	5	22.25	5.18	22.90	flush	pvc	2/91	Heritage	Yes
MW-31	shallow	28.33	27.95	5	22.33	NA	NA	flush	pvc	2/91	Heritage	NA
MW-32B	shallow	29.00	31.23	6	26.13	8.12	23.11	stickup	pvc	11/97	H&A	No
MW-33	shallow	U	31.72	10	U	9.64	22.08	stickup	pvc	4/92	Heritage	U
PB Series:												
PB-1	shallow	17.46	21.78	1	16.46	NA	NA	stickup	2" g.steel	6/95	GEO	NA
PB-2	shallow	17.50	21.25	1	16.70	NA	NA	stickup	2" g.steel	6/95	GEO	NA
PB-4	shallow	17.52	21.52	1	16.72	NA	NA	stickup	2" g.steel	6/95	GEO	NA

NOTES: Refer to "Table 2: Summary of Well Construction Data " provided in Appendix B of Progress Report dated July 31, 1995 for the list of sources used for compiling this table.

All measurements of depths are from the top of casing unless otherwise noted.

NA Well was inaccessible on the day of quarterly monitoring.

NI: Well not included in the quarterly monitoring.

U: Unknown.

*: All wells 4" diameter unless otherwise noted.

?: Well is screened in the confined aquifer, therefore, the question is not applicable.

(a): Ground water elevation data from MW-26 have been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

882200015

Contour Map Reporting Form

Site Name: Hexcel Facility, Lodi, NJ
File No.: 74167-004

Figure No.: 1
Water levels taken on 4/5/99
Page 1 of 2

1. Did any surveyed well casing elevations change from the previous sampling event? Yes
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) No

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? If yes, identify these wells. Yes
 No

Monitor wells for which the water table elevations are higher than the top of the well screen are identified in Table II: Well Construction Data provided in Appendix A.

3. Are there any monitor wells present at the site but omitted from the contour map? Yes
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. No

The quarterly ground water elevation monitoring plan was approved by NJDEP in its June 12, 1995 letter. For information on additional omissions, please refer to Figure 1: Shallow Groundwater Elevation Contours on 4/5/99 and Table I: Quarterly Water Level/Product Thickness Measurements (4/5/99) in Appendix A.

4. Are there any monitor wells containing separate phase product during this measuring event? Yes
 No

Although the interface probe did not register presence of measurable product in any of the wells, visual observation of the probe indicated presence of product (DNAPL).

- Were any of the monitor wells with separate phase product included in the ground water contour map? Yes
 No
If yes, show the formula used to correct the water table elevation.

The separate phase product detected in some of the wells was DNAPL, therefore, no correction was required for the water table elevation

5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? Yes
If yes, discuss the reasons for the change. No

Contour Map Reporting Form

Site Name: Hexcel Facility, Lodi, NJ
File No.: 74167-004

Figure No.: 1
Water levels taken on 4/5/99
Page 2 of 2

6. Has ground water mounding and/or depressions been identified in the ground water contour map? Yes No

Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence.

It is not known why mounding occurs in the vicinity of building 2.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes No
If no, justify inclusion of those wells.

8. Were the ground water contours
 computer generated, computer aided, or hand-drawn?
If computer aided or generated, identify the interpolation method(s) used.

Kriging Routine

Contour Map Reporting Form

Site Name: Hexcel Facility, Lodi, NJ
File No.: 74167-004

Figure No.: 2
Water levels taken on 4/5/99
Page 1 of 1

1. Did any surveyed well casing elevations change from the previous sampling event? Yes
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) No

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? If yes, identify these wells. Yes
 No

Not applicable because confined aquifer.

3. Are there any monitor wells present at the site but omitted from the contour map? Yes
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. No

4. Are there any monitor wells containing separate phase product during this measuring event? Yes
 No

Were any of the monitor wells with separate phase product included in the ground water contour map? Yes
 No
If yes, show the formula used to correct the water table elevation.

5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? Yes
 No
If yes, discuss the reasons for the change.

6. Has ground water mounding and/or depressions been identified in the ground water contour map? Yes
 No
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes
If no, justify inclusion of those wells. No

8. Were the ground water contours
 computer generated, computer aided, or hand-drawn?
If computer aided or generated, identify the interpolation method(s) used.

Kriging Routine

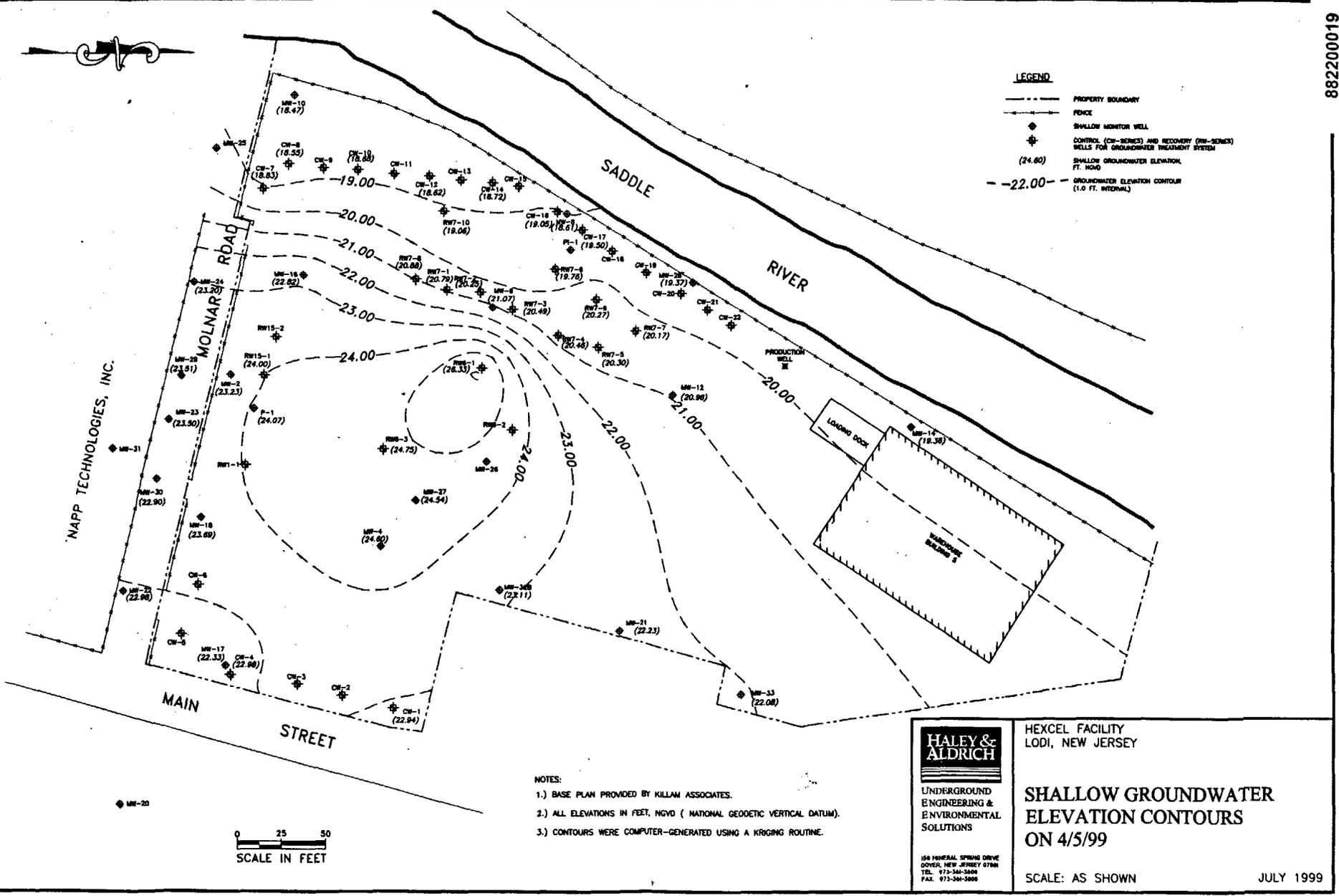
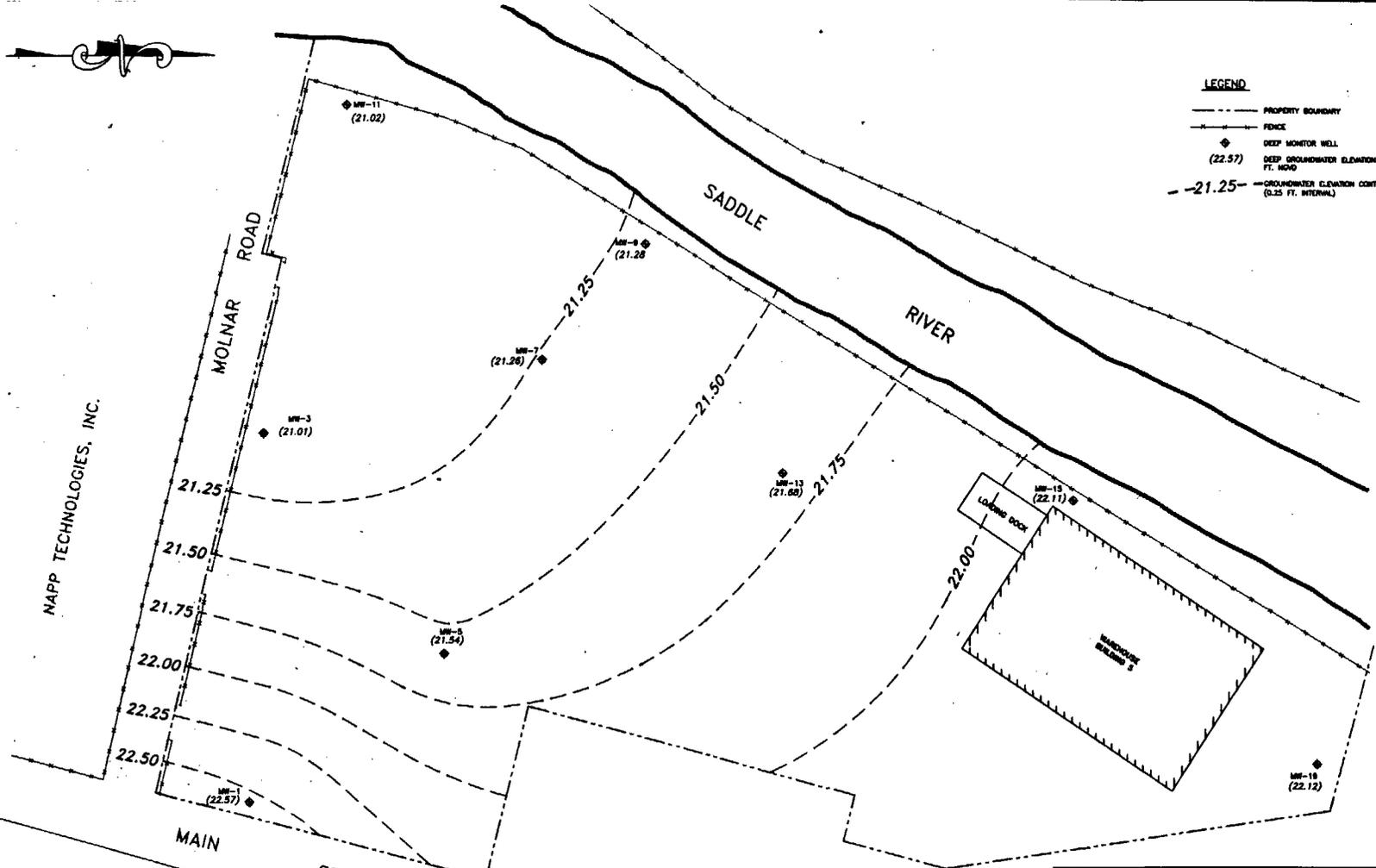


FIGURE 1



LEGEND

- PROPERTY BOUNDARY
- - - FENCE
- ◆ DEEP MONITOR WELL
- (22.57) DEEP GROUNDWATER ELEVATION, FT. NGVD
- - -21.25- GROUNDWATER ELEVATION CONTOUR (0.25 FT. INTERVAL)

MAPP TECHNOLOGIES, INC.

0 25 50
SCALE IN FEET

- NOTES:**
- 1.) BASE PLAN PROVIDED BY KILLAM ASSOCIATES.
 - 2.) ALL ELEVATIONS IN FEET, NGVD (NATIONAL GEODETIC VERTICAL DATUM).
 - 3.) CONTOURS WERE COMPUTER-GENERATED USING A KRIGING ROUTINE.

HALEY & ALDRICH
 UNDERGROUND
 ENGINEERING &
 ENVIRONMENTAL
 SOLUTIONS
 836 MINERAL SPRING DRIVE
 DOVER, NEW JERSEY 07804
 TEL: 973-541-5600
 FAX: 973-541-5600

HEXCEL FACILITY
LODI, NEW JERSEY

**DEEP GROUNDWATER
 ELEVATION CONTOURS
 ON 4/5/99**

SCALE: AS SHOWN

JULY 1999

FIGURE 2

Appendix B

Monthly Monitoring

Table III: Monthly Water Level/Product Thickness Measurements for May 1999

Table IV: Monthly Water Level/Product Thickness Measurements for June 1999

TABLE III
MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS FOR MAY 1999
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED : 5/27/99

Well ID	Type	Depth to Water	Depth to Product		Product Thickness		Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
			DNAPL	LNAPL	DNAPL	LNAPL				
CW-7	shallow	7.43	--	--	--	--	14.04	26.13	18.70	
CW-12	shallow	7.27	13.70	--	0.30	--	14.00	25.71	18.44	Product on Probe (DNAPL)
CW-16	shallow	7.82	--	--	--	--	13.95	26.45	18.63	
MW-6	shallow	9.81	18.01	--	0.54	--	18.55	30.74	20.93	Product on Probe (DNAPL)
MW-8	shallow	11.93	--	--	--	--	17.40	30.26	18.33	Product on Probe (DNAPL)**
MW-17	shallow	9.35	--	--	--	--	14.18	31.44	22.09	
MW-26		7.41	--	--	--	--	17.95	28.85	21.44	
RW6-1	shallow	2.05	--	--	--	--	13.75	28.84	26.79	
RW7-1	shallow	5.67	--	--	--	--	16.75	26.25	20.58	
RW7-4	shallow	6.66	--	--	--	--	19.15	27.11	20.45	
RW7-5	shallow	7.25	--	--	--	--	19.42	27.57	20.32	

NOTES: All measurements of depths are from the top of casing unless otherwise noted.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

--: Not detected by product interface meter.

** : Though the product-interface meter did not register presence of product in the well, product was observed on the probe.

882200022

HALEY &
ALDRICH

TABLE IV
MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS FOR JUNE 1999
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED : 6/26/99

Well ID	Type	Depth to Water	Depth to Product		Product Thickness		Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
			DNAPL	LNAPL	DNAPL	LNAPL				
CW-7	shallow	7.15	--	--	--	--	14.02	26.13	18.98	
CW-12	shallow	7.67	--	--	--	--	14.00	25.71	18.04	Product on Probe (DNAPL)**
CW-16	shallow	8.34	--	--	--	--	13.96	26.45	18.11	Product on Probe (DNAPL)**
MW-6	shallow	8.36	--	--	--	--	18.46	30.74	22.38	Product on Probe (DNAPL)**
MW-8	shallow	12.50	--	--	--	--	17.39	30.26	17.76	
MW-17	shallow	9.83	--	--	--	--	14.16	31.44	21.61	
MW-26		8.06	--	--	--	--	17.95	28.85	20.79	
RW6-1	shallow	2.31	--	--	--	--	13.76	28.84	26.53	Product on Probe (DNAPL)**
RW7-1	shallow	6.05	--	--	--	--	16.70	26.25	20.20	
RW7-4	shallow	7.25	--	--	--	--	19.15	27.11	19.86	
RW7-5	shallow	7.82	--	--	--	--	19.40	27.57	19.75	

NOTES: All measurements of depths are from the top of casing unless otherwise noted.
 Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.
 --: Not detected by product interface meter.
 **: Though the product-interface meter did not register presence of product in the well, product was observed on the probe.

882200023

HALEY &
 ALDRICH

Appendix C

Product Recovery

Table V: Product Collection (DNAPL) in Second Quarter of 1999

Table VI: Product Collection (LNAPL) in Second Quarter of 1999

TABLE V
PRODUCT COLLECTION (DNAPL) IN SECOND QUARTER OF 1999
HEXCEL FACILITY
LODI, NEW JERSEY

All Quantities are Expressed in Gallons Rounded to the Nearest 0.1

DATE	MW-6 (DNAPL)	MW-8 (DNAPL)	MW-26 (DNAPL)	RW6-1 (DNAPL)	RW7-1 (DNAPL)	RW7-4 (DNAPL)	RW7-5 (DNAPL)	CW-12 (DNAPL)	CW-16 (DNAPL)	PB-2 (DNAPL)	TOTAL VOLUME RECOVERED**
4/5/99 (Quarterly)	--	--	--	--	--	--	--	--	--	Well point not accessible for monitoring and product recovery	↓
4/7/99	--	*	--	0.1	*	*	*	*	*		
4/13/99	0.1	*	--	--	*	*	*	*	*		
4/21/99	0.1	*	*	--	*	*	*	*	*		
4/28/99	0.1	*	*	--	*	*	*	*	*		
5/6/99	--	*	*	*	*	*	*	*	*		
5/14/99	--	*	*	*	*	*	*	*	*		
5/20/99	0.1	*	*	*	*	*	*	*	*		
5/27/99 (Monthly)	--	--	--	--	--	--	--	--	--		
6/4/99	0.1	*	*	*	*	*	*	--	*		
6/9/99	--	*	*	*	*	*	*	--	*		
6/17/99	--	*	*	*	*	*	*	*	*		
6/26/99 (Monthly)	--	--	--	--	--	--	--	--	--		
TOTAL VOLUME RECOVERED, 2ndst QUARTER, 1999	0.5	--	--	0.1	--	--	--	--	--	--	0.6
TOTAL VOLUME RECOVERED, 1st QUARTER 1999	0.1	--	0.1	--	--	--	--	--	--	--	0.2
TOTAL VOLUME RECOVERED, 10/94 - 12/98	20.4	1.0	0.4	0.1	0.3	--	--	0.7	0.7	4.6	29.0
TOTAL VOLUME RECOVERED (TOTAL SINCE 10/94)	21.0	1.0	0.5	0.2	0.3	--	--	0.7	0.7	4.6	29.8

Notes: For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

*: Well not included in the weekly product recovery program.

--: i) Well was monitored and did not indicate recoverable product or ii) no measurable amount of product was recovered either by bailing or pumping.

** : Total includes 0.8 gallons recovered from CW-15 prior to reinstallation of ground water recovery equipment in the well; the well was discontinued from the monitoring program at that time.

882200025

TABLE VI
PRODUCT COLLECTION (LNAPL) IN SECOND QUARTER OF 1999
HEXCEL FACILITY
LODI, NEW JERSEY

All Quantities are Expressed in Gallons Rounded to the Nearest 0.1

DATE	MW-6 (LNAPL)	MW-8 (LNAPL)	MW-23 (LNAPL)	RW1-1 (LNAPL)	RW 6-1 (LNAPL)	RW7-4 (LNAPL)	RW7-5 (LNAPL)	CW-7 (LNAPL)	CW-12 (LNAPL)	CW-16 (LNAPL)	MW-17 (LNAPL)	RW 15-1 (LNAPL)	TOTAL VOLUME RECOVERED
4/5/99 (Quarterly)	--	--	--	--	--	--	--	--	--	--	--	--	↓
4/7/99	--	*	*	*	--	*	*	*	*	*	*	*	
4/13/99	--	*	*	*	--	*	*	*	*	*	*	*	
4/21/99	--	*	*	*	--	*	*	*	*	*	*	*	
4/28/99	--	*	*	*	--	*	*	*	*	*	*	*	
5/6/99	--	*	*	*	*	*	*	*	*	*	*	*	
5/14/99	--	*	*	*	*	*	*	*	*	*	*	*	
5/20/99	--	*	*	*	*	*	*	*	*	*	*	*	
5/27/99 (Monthly)	--	--	*	*	--	--	--	--	--	--	--	*	
6/4/99	--	*	*	*	*	*	*	*	--	*	*	*	
6/9/99	--	*	*	*	*	*	*	*	--	*	*	*	
6/17/99	--	*	*	*	*	*	*	*	*	*	*	*	
6/26/99 (Monthly)	--	--	*	*	--	--	--	--	--	--	--	*	
TOTAL VOLUME RECOVERED, 2ndst QUARTER, 1999	--	--	--	--	--	--	--	--	--	--	--	--	0.0
TOTAL VOLUME RECOVERED, 1st QUARTER 1999	--	--	--	--	--	--	--	--	--	--	--	--	0.0
TOTAL VOLUME RECOVERED, 10/94 - 12/98	8.0	--	--	--	--	--	--	3.4	--	--	--	--	11.4
TOTAL VOLUME RECOVERED (TOTAL SINCE 10/94)	8.0	--	--	--	--	--	--	3.4	--	--	--	--	11.4

Notes: For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

* Well not included in the weekly product recovery.

-- i) Monitoring did not indicate recoverable product or ii) no measurable amount of LNAPL was recovered in the absorbent pad.

882200026

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
RW Series:												
RW1-1	shallow	NA	--	--	--	--	NA	28.24	NA	flush	s.steel	Measurements could not be made as an absorbent pad installed in the well was inadvertently dropped in the well.
RW6-1	shallow	2.53	--	--	--	--	13.67	28.84	26.31	flush	s.steel	Product on probe (DNAPL) **.
RW6-2	shallow	NA	--	--	--	--	NA	29.34		flush	s.steel	Not measured; well casing elevation has changed.
RW6-3	shallow	3.92	--	--	--	--	5.46	28.72	24.80	flush	s.steel	
RW7-1	shallow	5.46	--	--	--	--	16.61	26.25	20.79	flush	s.steel	
RW7-2	shallow	6.23	--	--	--	--	16.89	26.48	20.25	flush	s.steel	
RW7-3	shallow	6.29	--	--	--	--	17.31	26.78	20.49	flush	s.steel	
RW7-4	shallow	6.65	--	--	--	--	19.09	27.11	20.46	flush	s.steel	Product on probe (DNAPL) **.
RW7-5	shallow	7.27	--	--	--	--	19.43	27.57	20.30	flush	s.steel	Product on probe (DNAPL) **.
RW7-6	shallow	6.72	--	--	--	--	15.02	26.48	19.76	flush	s.steel	
RW7-7	shallow	6.72	--	--	--	--	14.90	26.89	20.17	flush	s.steel	
RW7-8	shallow	5.02	--	--	--	--	14.99	25.90	20.88	flush	s.steel	
RW7-9	shallow	6.60	--	--	--	--	16.21	26.87	20.27	flush	s.steel	
RW7-10	shallow	7.04	--	--	--	--	14.19	26.10	19.06	flush	s.steel	
RW15-1	shallow	5.95	--	--	--	--	14.95	29.95	24.00	flush	s.steel	
RW15-2	shallow							30.15		flush	s.steel	Well not included in quarterly monitoring plan.

882200027

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
P Series:												
P-1	shallow	6.02	--	--	--	--	9.28	30.09	24.07	flush	1.5" pvc	
P-2	shallow	WA	--	--	--	--	WA	30.19	WA	flush	1.5" pvc	Well was sealed on March 29, 1996.
PI Series:												
PI-1	deep							26.90		flush	8" s.steel	Well not included in quarterly monitoring plan.
CW Series:												
CW-1	shallow	6.83	--	--	--	--	11.48	29.77	22.94	flush	s.steel	
CW-2	shallow							29.51		flush	s.steel	Well not included in quarterly monitoring plan.
CW-3	shallow							29.72		flush	s.steel	Recovery well; not included in monitoring plan.
CW-4	shallow	5.85	--	--	--	--	11.01	28.83	22.98	flush	s.steel	
CW-5	shallow							28.67		flush	s.steel	Recovery well; not included in monitoring plan.
CW-6	shallow							28.93		flush	s.steel	Well not included in quarterly monitoring plan.
CW-7	shallow	7.30	--	--	--	--	14.03	26.13	18.83	flush	s.steel	
CW-8	shallow	8.22	--	--	--	--	13.99	26.77	18.55	flush	s.steel	
CW-9	shallow							26.37		flush	s.steel	Recovery well; not included in monitoring plan.
CW-10	shallow	7.23	--	--	--	--	10.28	25.91	18.68	flush	s.steel	

882200028

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
CW Series (continued):												
CW-11	shallow							25.74		vaultbox	s.steel	Recovery well; not included in monitoring plan.
CW-12	shallow	7.09	--	--	--	--	13.94	25.71	18.62	flush	s.steel	Product on probe (DNAPL) **.
CW-13	shallow							26.05		flush	s.steel	Well not included in quarterly monitoring plan.
CW-14	shallow	7.65	--	--	--	--	13.92	26.37	18.72	flush	s.steel	
CW-15	shallow							26.31		flush	s.steel	Recovery well; not included in monitoring plan.
CW-16	shallow	7.40	--	--	--	--	13.88	26.45	19.05	flush	s.steel	Product on probe (DNAPL) **.
CW-17	shallow	6.75	--	--	--	--	13.99	26.25	19.50	flush	s.steel	
CW-18	shallow							26.61		flush	s.steel	Recovery well; not included in monitoring plan.
CW-19	shallow							26.50		flush	s.steel	Well not included in quarterly monitoring plan.
CW-20	shallow							26.74		flush	s.steel	Well not included in quarterly monitoring plan.
CW-21	shallow							26.77		flush	s.steel	Recovery well; not included in monitoring plan.
CW-22	shallow							26.35		flush	s.steel	Well not included in quarterly monitoring plan.
MW Series:												
MW-1	deep	9.85	--	--	--	--	23.62	32.42	22.57	stickup	pvc	
MW-2	shallow	7.77	--	--	--	--	10.28	31.00	23.23	stickup	pvc	
MW-3	deep	10.12	--	--	--	--	30.85	31.13	21.01	stickup	pvc	
MW-4	shallow	7.74	--	--	--	--	9.90	32.33	24.59	stickup	pvc	
MW-5	deep	11.00	--	--	--	--	28.45	32.54	21.54	stickup	pvc	

882200029

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
MW Series (continued):												
MW-6	shallow	9.67	--	--	--	--	18.31	30.74	21.07	stickup	pvc	
MW-7	deep	9.42	--	--	--	--	33.05	30.68	21.26	stickup	pvc	
MW-8	shallow	11.65	--	--	--	--	17.40	30.26	18.61	stickup	pvc	Product on probe (DNAPL) **.
MW-9	deep	8.55	--	--	--	--	29.66	29.83	21.28	stickup	pvc	
MW-10	shallow	12.36	--	--	--	--	16.80	30.83	18.47	stickup	pvc	
MW-11	deep	9.76	--	--	--	--	33.61	30.78	21.02	stickup	pvc	
MW-12	shallow	10.05	--	--	--	--	17.24	31.01	20.96	stickup	pvc	
MW-13	deep	9.48	--	--	--	--	33.37	31.16	21.68	stickup	pvc	
MW-14	shallow	11.34	--	--	--	--	15.65	30.70	19.36	stickup	pvc	
MW-15	deep	8.66	--	--	--	--	25.70	30.77	22.11	stickup	pvc	
MW-16	shallow	6.87	--	--	--	--	12.44	29.69	22.82	stickup	pvc	
MW-17	shallow	9.11	--	--	--	--	14.10	31.44	22.33	stickup	pvc	
MW-18	shallow	8.54	--	--	--	--	11.40	32.23	23.69	stickup	pvc	
MW-19	deep	6.96	--	--	--	--	26.70	29.08	22.12	stickup	pvc	
MW-20	shallow	NA	--	--	--	--	NA	27.95	NA	flush	pvc	Car parked over well; owner could not be contacted.
MW-21	shallow	8.44	--	--	--	--	15.18	30.67	22.23	stickup	pvc	
MW-22	shallow	5.47	--	--	--	--	8.35	28.45	22.98	flush	pvc	
MW-23	shallow	4.01	--	--	--	--	9.63	27.51	23.50	flush	pvc	
MW-24	shallow	3.31	--	--	--	--	9.42	26.51	23.20	flush	pvc	
MW-25	shallow	NA	--	--	--	--	NA	26.03	NA	flush	pvc	Well on Napp property; access denied.

882200030

TABLE I
QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/5/99)
HEXCEL FACILITY
LODI, NEW JERSEY

-All measurements in feet -
 -All elevations in feet (NGVD)-

Well ID	Type	Depth to Water (4/5/99)	Depth to Product		Product Thickness		Depth to Bottom (4/5/99)	Elevation Top of Casing	Water Elevation (4/5/99)	Well Construction		Comments
			DNAPL	LNAPL	DNAPL	LNAPL				Type	Casing	
MW Series (continued):												
MW-26	(a)	7.16	--	--	--	--	18.05	28.85	21.69	flush	2" pvc	
MW-27	shallow	7.15	--	--	--	--	11.96	31.43	24.28	stickup	pvc	
MW-28	shallow	10.31	--	--	--	--	14.80	29.68	19.37	stickup	pvc	
MW-29	shallow	3.81	--	--	--	--	9.38	27.32	23.51	flush	pvc	
MW-30	shallow	5.18	--	--	--	--	10.48	28.08	22.90	flush	pvc	
MW-31	shallow	NA	--	--	--	--	NA	27.95	NA	flush	pvc	Well on Napp property; access denied.
MW-32B	shallow	8.12	--	--	--	--	11.11	31.23	23.11	flush	pvc	
MW-33	shallow	9.64	--	--	--	--	17.02	31.72	22.08	stickup	pvc	
PB Series:												
PB-1	shallow	NA					NA	21.78	NA	stickup	2" g.steel	The Building I pit has been rendered inaccessible for monitoring. Prior to demolition, the pit was covered with steel plates as a safety precaution and to avoid debris falling into the pit.
PB-2	shallow	NA					NA	21.25	NA	stickup	2" g.steel	
PB-4	shallow	NA					NA	21.52	NA	stickup	2" g.steel	

NOTES: All measurements of depths are from the top of casing unless otherwise noted. All wells are 4" diameter unless otherwise noted.

--: Not detected by product interface meter.

N/A : Measurements not available.

(a): Ground water elevation data from MW-26 have been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

*: In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness * specific gravity).

Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

** : Though the product interface meter did not register presence of product in the well, product was observed on the probe.

882200031

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
						(2/17/99)		Type	Casing	Date	By	
P Series:												
P-1	shallow	U	30.09	U	U	6.44	23.65	flush	1.5" pvc	U	U	U
PI Series:												
PI-1	deep	U	26.90	U	U			flush	8" s.steel	10/91	Heritage	
CW Series:												
CW-1	shallow	30.27	29.77	5	23.27	7.07	22.70	flush	s.steel	9/90	Heritage	No
CW-2	shallow	30.11	29.51	5	23.11			flush	s.steel	9/90	Heritage	NI
CW-3	shallow	U	29.72	5	U			flush	s.steel	9/90	Heritage	NI
CW-4	shallow	29.10	28.83	5	22.60	6.03	22.80	flush	s.steel	7/90	Heritage	Yes
CW-5	shallow	28.89	28.67	5	22.39			flush	s.steel	7/90	Heritage	NI
CW-6	shallow	29.25	28.93	5	25.25			flush	s.steel	9/90	Heritage	NI
CW-7	shallow	26.70	26.13	5	17.70	7.45	18.68	flush	s.steel	8/90	Heritage	Yes
CW-8	shallow	26.70	26.77	5	17.70	8.36	18.41	flush	s.steel	8/90	Heritage	Yes
CW-9	shallow	26.60	26.37	5	17.60			flush	s.steel	8/90	Heritage	NI
CW-10	shallow	26.50	25.91	5	17.50	7.36	18.55	flush	s.steel	8/90	Heritage	Yes

882200032

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
						(2/17/99)		Type	Casing	Date	By	
CW Series (continued):												
CW-11	shallow	26.60	25.74	5	17.60			vaultbox	s.steel	8/90	Heritage	NI
CW-12	shallow	26.51	25.71	5	17.51	7.26	18.45	flush	s.steel	8/90	Heritage	Yes
CW-13	shallow	26.60	26.05	5	17.60			flush	s.steel	8/90	Heritage	NI
CW-14	shallow	26.70	26.37	5	17.70	7.81	18.56	flush	s.steel	8/90	Heritage	Yes
CW-15	shallow	26.90	26.31	5	17.90			flush	s.steel	8/90	Heritage	NI
CW-16	shallow	27.00	26.45	5	18.00	7.57	18.88	flush	s.steel	8/90	Heritage	Yes
CW-17	shallow	27.10	26.25	5	18.10	6.98	19.27	flush	s.steel	8/90	Heritage	Yes
CW-18	shallow	27.20	26.61	5	18.20			flush	s.steel	8/90	Heritage	NI
CW-19	shallow	27.20	26.50	5	18.20			flush	s.steel	8/90	Heritage	NI
CW-20	shallow	27.30	26.74	5	18.30			flush	s.steel	8/90	Heritage	NI
CW-21	shallow	27.40	26.77	5	18.40			flush	s.steel	8/90	Heritage	NI
CW-22	shallow	27.30	26.35	5	18.30			flush	s.steel	8/90	Heritage	NI
MW Series:												
MW-1	deep	29.03	32.42	5	13.88	10.06	22.36	stickup	pvc	7/88	Environ	^
MW-2	shallow	27.90	31.00	5	26.13	7.90	23.10	stickup	pvc	8/88	Environ	No
MW-3	deep	27.84	31.13	5	5.30	10.48	20.65	stickup	pvc	8/88	Environ	^
MW-4	shallow	29.02	32.33	5	27.49	8.02	24.31	stickup	pvc	8/88	Environ	No
MW-5	deep	29.03	32.54	5	9.12	11.35	21.19	stickup	pvc	8/88	Environ	^

882200033

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
						(2/17/99)		Type	Casing	Date	By	
MW Series (continued):												
MW-6	shallow	27.14	30.74	10	22.12	10.52	20.22	stickup	pvc	8/88	Environ	No
MW-7	deep	27.18	30.68	5	2.55	9.81	20.87	stickup	pvc	7/88	Environ	^
MW-8	shallow	26.92	30.26	10	22.98	11.84	18.42	stickup	pvc	8/88	Environ	No
MW-9	deep	26.89	29.83	5	5.09	8.99	20.84	stickup	pvc	7/88	Environ	^
MW-10	shallow	27.33	30.83	11	24.81	12.54	18.29	stickup	pvc	8/88	Environ	No
MW-11	deep	27.28	30.78	10	6.86	10.22	20.56	stickup	pvc	7/88	Environ	^
MW-12	shallow	27.62	31.01	10	24.05	10.51	20.50	stickup	pvc	8/88	Environ	No
MW-13	deep	27.63	31.16	5	2.89	9.86	21.30	stickup	pvc	7/88	Environ	^
MW-14	shallow	27.12	30.70	9	24.18	11.51	19.19	stickup	pvc	8/88	Environ	No
MW-15	deep	27.17	30.77	5	10.13	9.03	21.74	stickup	pvc	7/88	Environ	^
MW-16	shallow	26.71	29.69	5	22.14	6.96	22.73	stickup	pvc	8/88	Environ	Yes
MW-17	shallow	29.10	31.44	8	25.10	10.26	21.18	stickup	pvc	1/89	Environ	No
MW-18	shallow	29.04	32.23	5	25.97	8.98	23.25	stickup	pvc	8/88	Environ	No
MW-19	deep	27.30	29.08	5	7.30	7.27	21.81	stickup	pvc	1/89	Environ	^
MW-20	shallow	28.50	27.95	5	13.50	5.40	22.55	flush	pvc	11/90	Heritage	Yes
MW-21	shallow	28.80	30.67	10	25.80	8.63	22.04	stickup	pvc	9/90	Heritage	No
MW-22	shallow	28.73	28.45	5	25.73	5.67	22.78	flush	pvc	12/90	Heritage	No
MW-23	shallow	27.83	27.51	5	22.83	4.42	23.09	flush	pvc	11/90	Heritage	Yes
MW-24	shallow	26.93	26.51	5	21.93	3.68	22.83	flush	pvc	11/90	Heritage	Yes
MW-25	shallow	26.47	26.03	10	23.47	NA	NA	flush	pvc	9/90	Heritage	NA

882200034

TABLE II
WELL CONSTRUCTION DATA
HEXCEL FACILITY
LODI, NEW JERSEY

Well ID	Type	Ground Elevation	Elevation Top of Casing	Length of Screen	Elevation Top of Screen	Depth to Water	Water Elevation	Well Construction		Installation		Water Table Elv. > Top of Screen Elv.
						(2/17/99)		Type	Casing	Date	By	
MW Series (continued):												
MW-26	(a)	29.26	28.85	2	12.26	7.26	21.59	flush	2" pvc	12/90	Heritage	(a)
MW-27	shallow	29.10	31.43	5	24.10	7.43	24.00	stickup	pvc	9/90	Heritage	No
MW-28	shallow	27.50	29.68	10	24.50	10.50	19.18	stickup	pvc	9/90	Heritage	No
MW-29	shallow	27.50	27.32	5	22.50	4.16	23.16	flush	pvc	2/91	Heritage	Yes
MW-30	shallow	28.25	28.08	5	22.25	4.71	23.37	flush	pvc	2/91	Heritage	Yes
MW-31	shallow	28.33	27.95	5	22.33	NA	NA	flush	pvc	2/91	Heritage	NA
MW-32B	shallow	29.00	31.23	6	26.13	8.25	22.98	stickup	pvc	11/97	H&A	No
MW-33	shallow	U	31.72	10	U	9.85	21.87	stickup	pvc	4/92	Heritage	U
PB Series:												
PB-1	shallow	17.46	21.78	1	16.46	NA	NA	stickup	2" g.steel	6/95	GEO	NA
PB-2	shallow	17.50	21.25	1	16.70	NA	NA	stickup	2" g.steel	6/95	GEO	NA
PB-4	shallow	17.52	21.52	1	16.72	NA	NA	stickup	2" g.steel	6/95	GEO	NA

NOTES: Refer to "Table 2: Summary of Well Construction Data " provided in Appendix B of Progress Report dated July 31, 1995 for the list of sources used for compiling this table.

All measurements of depths are from the top of casing unless otherwise noted.

NA Measurements could not be made on the day of the monitoring.

NI: Well not included in the quarterly monitoring.

U: Unknown.

*: All wells 4" diameter unless otherwise noted.

∩: Well is screened in the confined aquifer, therefore, the question is not applicable.

(a): Ground water elevation data from MW-26 have been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

882200035